LISTING OF CLAIMS

1. (Currently amended) A device suitable for use in an assay for the detection of at

least one substance in a sample suspected of containing the same comprising:

a substrate having a surface for supporting at least one complement at fixed

locations thereof, said surface having been contacted with said sample;

at least one complement fixed to the surface of said substrate, each having a

complementary binding substance for a corresponding substance which may be said at

least one substance;

signal generating means attached to said corresponding substance for

generating a detectable signal at locations where a complement is bound to its

corresponding substance; and

a protective coating applied to the surface of said substrate in contact with said

signal generating means and covering complement fixed on the sample contacted

surface of said substrate and any corresponding substance bound thereto, said

protective coating comprising a protective coating forming material which is impervious

to the penetration of at least one gas capable of adversely affecting the signal

generation of the signal generating means and which is at least substantially

transparent to the detectable signal generated by the signal generating means.

2. (Cancelled)

3. (Previously presented) The device of claim 1 wherein the protective coating forming

material comprises an acrylic polymer resin.

Amendment Under 37 CFR 1.116

Serial Number: 10/643,322

Filing Date: August 19, 2003

Title: Method and Composition for Forming a Protective Coating...

4. (Previously presented) The device of claim 3 wherein the acrylic polymer resin is a

Docket: DSC0029-00US

copolymer of methyl acrylate and ethyl methacrylate.

5. (Previously presented) The device of claim 1 comprising a hermetic seal between the

protective coating and the substrate.

6.-16. (Cancelled)

17. (Withdrawn) A composition for forming a protective coating over the surface of an

assay substrate having an indicating agent capable of generating a detectable signal

associated therewith, comprising a protective coating forming material, and a delivery

system for delivering the protective coating forming material in an amount sufficient to

coat the surface of the assay substrate, wherein the delivery system evaporates from

the surface of the assay substrate to form a protective coating at least substantially

composed of the protective coating forming material that is at least substantially

transparent to the detectable signal generated by the indicating agent.

18. (Withdrawn) The composition of claim 17 wherein the protective coating forming

material comprises an acrylic polymer resin.

19. (Withdrawn) The composition of claim 18 wherein the acrylic polymer resin is a

copolymer of methyl acrylate and ethyl methacrylate.

20. (Withdrawn) A method for forming a substantially transparent protective coating over

the surface of an assay substrate having an indicating agent capable of generating a

detectable signal associated therewith, said method comprising the steps of:

Title: Method and Composition for Forming a Protective Coating...

applying to the surface of the assay substrate an effective amount of the

composition of claim 17 sufficient to form the protective coating and seal the indicating

agent from the ambient atmosphere; and

drying said composition to remove the delivery system to yield the substantially

transparent protective coating.

21. (Withdrawn) The method of claim 20 further comprising polishing the protective

coating to enhance the transparent qualities of the protective coating.

22. (Withdrawn) The method of claim 20 wherein the applying step further comprises:

dipping the assay substrate in the composition of claim 17 for a sufficient time to

allow the composition to adhere to the surface of the assay substrate; and

withdrawing the assay substrate from the composition.

23. (Withdrawn) The method of claim 22 wherein the assay substrate is dipped from

about 5 seconds to 10 seconds.

24. (Withdrawn) The method of claim 20 wherein the applying step further comprises:

pipetting the composition of claim 17 in an amount sufficient to coat the surface

of the assay substrate associated with the indicating agent; and

rocking the assay substrate from side to side for a sufficient time to evenly

distribute the composition thereacross and form the protective coating.

25. (Withdrawn) The method of claim 20 wherein the applying step further comprises:

Title: Method and Composition for Forming a Protective Coating...

spraying the composition of claim 17 in an amount sufficient to coat the surface

of the assay substrate associated with the indicating agent; and

rocking the assay substrate from side to side for a sufficient time to evenly

distribute the composition thereacross and form the protective coating.

26. (Withdrawn) The method of claim 21 wherein the polishing step further comprises:

preparing a polishing solution consisting of a solvent;

suspending the assay substrate in the polishing solution for a sufficient time to

remove a layer portion of the protective coating;

withdrawing the assay substrate from the polishing solution;

shaking off any excess polishing solution from the assay substrate;

drving the assay substrate; and

if necessary, repeating the above steps.

27. (Withdrawn) The method of claim 26 wherein the solvent is selected from the group

consisting of toluene, acetone and mixtures thereof.

28. (Withdrawn) The method of claim 27 wherein the solvent is a mixture containing

acetone and toluene in a volumetric ratio of from about 1:2 to 1:3.

29. (Cancelled)

30. (Previously presented) The device of claim 1 wherein the substrate is made from a

material selected from the group consisting of glass, aminosilanes, epoxies, and poly-L-

lysines.

Amendment Under 37 CFR 1.116

Serial Number: 10/643,322

Filing Date: August 19, 2003

Title: Method and Composition for Forming a Protective Coating...

31. (Cancelled)

32. (Previously presented) The device of claim 1 wherein the protective coating is

Docket: DSC0029-00US

impervious to ozone.

33. (Previously presented) The device of claim 1 wherein the substrate is a microarray.

34. (Previously presented) The device of claim 1 wherein the signal generating means

comprises an indicating agent.

35. (Previously presented) The device of claim 34 wherein the indicating agent has a

binding affinity for the corresponding substance.

36. (Previously presented) The device of claim 1 wherein said at least one complement

comprises a corresponding substance bound thereto.